

### Abstract

[Abstract] A resample length  $L$  between sampling points to resample a linear object is set so that an error  $E_r$  between the resample shape concatenating the sampling points as a line and the linear object does not exceed a predetermined allowable error. The allowable error is predefined and the resample length  $L$  is determined so as not to exceed the allowable error, so that the resample shape well follows the linear object.